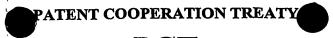
## Translation





## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4211/I/098	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)							
International application No.	International filing date (day/month/yea	ar) Priority date (day/month/year)						
PCT/DE2003/003163	23 September 2003 (23.09.200	03) 05 December 2002 (05.12.2002)						
International Patent Classification (IPC) or national classification and IPC G02B 21/00								
Applicant  LEICA MICROSYSTEMS HEIDELBERG GMBH								
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of	5 sheets, including this c	over sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a t	otal of sheets.							
3. This report contains indications rel	ating to the following items:							
I Basis of the report								
II Priority								
III Non-establishment	of opinion with regard to novelty, inven	tive step and industrial applicability						
IV Lack of unity of in								
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents	VI Certain documents cited							
VII Certain defects in	the international application							
VIII Certain observations on the international application								
Date of submission of the demand	Date of comp	letion of this report						
27 May 2004 (27.05	.2004)	25 January 2005 (25.01.2005)						
Name and mailing address of the IPBA/E	P Authorized o	fficer						
Facsimile No.	Telephone No.							

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Intern	l application No.
PC	T/DE2003/003163

I. Basis of the report						
1. '	With 1	regard to	the elements of the international application:*			
ſ	$\neg$	the inter	national application as originally filed			
i	$\overline{\nabla}$	the desc	ription:			
		pages	1-14 , as originally filed			
		pages	, filed with the demand			
		pages .	, filed with the letter of			
	X	the clair	ms:			
		pages	, as originally filed			
		pages	, as amended (together with any statement under Article 19			
		pages	, filed with the demand			
		pages	1-13, filed with the letter of14 November 2004 (14.11.2004)			
	$\boxtimes$	the drav				
		pages	1/6-6/6 , as originally filed			
		pages	, filed with the demand			
		pages	, filed with the letter of			
		the seque	ence listing part of the description:			
		pages	, as originally filed			
		pages	, filed with the demand			
		pages	, filed with the letter of			
<ol> <li>With regard to the language, all the elements marked above were available or furnished to this Authority in the language the international application was filed, unless otherwise indicated under this item.         These elements were available or furnished to this Authority in the following language         the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).         the language of publication of the international application (under Rule 48.3(b)).         the language of the translation furnished for the purposes of international preliminary examination (under Rule or 55.3).     </li> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the in preliminary examination was carried out on the basis of the sequence listing:</li> </ol>						
		filed t furnis furnis The interr	ined in the international application in written form.  together with the international application in computer readable form.  shed subsequently to this Authority in written form.  shed subsequently to this Authority in computer readable form.  statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the national application as filed has been furnished.  statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.			
	in an	This is beyond this report of 10.17).				
	** An	y replace	ement sheet containing such amendments must be referred to under item 1 and annexed to this report.			

YES

NO

1-13

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims	1-13	YES	
		Claims		NO	
	Inventive step (IS)	Claims		YES	
	• • •	Claims	1-13	NO	

2. Citations and explanations

Industrial applicability (IA)

This report makes reference to the following documents:

Claims

Claims

D1: EP1178345

D2: XP000255795

D3: US5192980

D4: XP000981049

- 2. The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 does not involve an inventive step (PCT Article 33(3)).
- 2.1 Document D1 discloses (see the figure) a scanning microscope for reproducing an object (14) by means of a light source (7), an illumination beam path with a spectrally selective element AOTF (8), and a detection beam path with a spectrally selective detection device (2, 5).

The subject matter of claim 1 differs from D1 in that the illumination and detection beam paths are designed as in a slit scanner, slit diaphragms being provided in the illumination beam path and in the

detection beam path, the length or width of at least one of the diaphragm slits being variable.

The present invention can therefore be considered to address the problem of increasing the possible data recording speed.

The advantages of confocal microscopes with slit scanners over pin hole arrangements are generally known. D2, for example, discloses a confocal microscope with a slit scanner (figure 1) and discusses its advantages, such as the higher sample illumination intensity (page 156, column 2).

Moreover, D3 (column 7, lines 3-24) proposes replacing the pin hole arrangement in a spectral resolution, confocal scanning microscope by a slit scan arrangement, should this be necessary.

It is thus absolutely evident that a person skilled in the art would modify the arrangement disclosed in D1 in accordance with the teaching of D2 and D3 in order to increase, for example, the possible data recording speed.

Moreover, D2 also describes (figure 1 and corresponding description on page 157) the arrangement of a split diaphragm (S1, S2) in the illumination beam path and in the detection beam path, at least the slit width of diaphragm (S1) being adjustable.

A person skilled in the art would thus directly arrive at the solution specified in claim 1, without needing an inventive step.

3. Dependent claims 2-13 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, would meet the PCT novelty or inventive step requirements, for the following reasons:

claims 2-3: the use of the specified slit diaphragms and their design is generally known (see D1 and D2). The use of a zoom lens in connection with a slit diaphragm is disclosed in D4.

claims 4-10: the use of the specified components in confocal scanning microscopes is known from D1.

claims 11-13: the specified uses are known from D3 (column 8, lines 21-23) and their demands on the detection system are obvious to a person skilled in the art.